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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,484	06/19/2003	Michael G. Luby	019186-000640US	6329
20350 7	7590 12/13/2004		EXAM	INER
	AND TOWNSEND	JEAN PIERF	JEAN PIERRE, PEGUY	
TWO EMBARCADERO CENTER EIGHTH FLOOR			ART UNIT	PAPER NUMBER
	SAN FRANCISCO, CA 94111-3834		2819	

DATE MAILED: 12/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)		
	10/600,484	LUBY, MICHAEL G.		
Office Action Summary	Examiner	Art Unit		
	Peguy JeanPierre	2819		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 11/8/	200 <u>4</u> .			
• • • • • • • • • • • • • • • • • • • •				
Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) ☐ Claim(s) 27-45 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 27-45 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9)☐ The specification is objected to by the Examine	r.			
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex		• •		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachment(s)	" □	(070, 440)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 27-45 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The limitations of claim 27 (lines 11-13) "wherein the ratio of the number of possible output symbols to be output to the number of input symbols in the plurality of input symbols is greater than is needed for any expected signal to noise ratio".
- 3. Claims 27-45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. In claim 27, lines 11-13, the limitation "wherein... signal-to-noise ration" is not supported by the original disclosure.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA

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1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 27-45 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-18 of U.S. Patent No. 6,307,487. Although the conflicting claims are not identical, they are not patentably distinct from each other because both claims recite the same subject matter as substantially claimed. For instance claims 27 and 28 of the application recite the sesame subject matter as claim 1 of 6,307,487 except for the ratio of the number of possible output symbols... for any expected signal to noise ratio. This limitation is a well-known concept in communications.

Response to Arguments

5. Applicant's arguments filed on 11/8/2004 have been fully considered but they are not persuasive.

Applicant's argues that the limitations of the "signal to noise ratio of a communication medium... is a well-known concept in communications". The Examiner agrees. The Examiner's objection goes beyond this specific limitation. Though the signal to noise ratio in communication medium is known, but to make or have or design the ratio to be greater than needed for any expected signal to noise ratio must be clearly described in the specification to help in understanding the invention and in making any artisan having

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working knowledge in the art to make use of the invention. Hence, the 112th rejection has been maintained.

In addition, since as admitted by Applicant, in his remarks, the signal to noise ratio is a well-known concept in the art, the added limitation in the application of "wherein the signal to noise... expected signal to noise ratio." does not distinguish the claims of the application from the claims of the cited reference, hence a double patenting rejection is appropriate.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peguy JeanPierre whose telephone number is (571) 272-1803. The examiner fax phone number is (571) 273-1803.

Peguy JeanPierre Primary Examiner